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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/00 A61K31/7088 A61K48/00 G01N33/68 G01N33/50 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K G01N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages Relevant to claim No. Category ° WO 03/026641 A (UNIVERSITY OF NOTTINGHAM; Х 1-3, SHAW, PETER; PRITCHARD, DAVI; LI, LI; 15-17, PRITCH) 3 April 2003 (2003-04-03) 21-24; 27-29, 41-43, 47,50, 53,54 claims 4,12 Further documents are listed in the continuation of box C. Х Patent family members are listed in annex. Special categories of cited documents: T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "E" earlier document but published on or after the International filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. "P" document published prior to the international filling date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 13. 10. 2005 19 July 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Schwachtgen, J-L Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2004/012799

No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet) 1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, the international search was carried out on the basis of: a. type of material X a sequence listing table(s) related to the sequence listing b. format of material X in written format X in computer readable form	he claimed
invention, the international search was carried out on the basis of: a. type of material X a sequence listing table(s) related to the sequence listing b. format of material X in written format X In computer readable form	he claimed
table(s) related to the sequence listing b. format of material X in written format X in computer readable form	
table(s) related to the sequence listing b. format of material X in written format X in computer readable form	
b. format of material X in written format X in computer readable form	
in written format In computer readable form	
In computer readable form	
c. time of filing/fumlshing	
X contained in the international application as filed	
filed together with the International application in computer readable form	
x furnished subsequently to this Authority for the purpose of search	
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has or furnished, the required statements that the information in the subsequent or additional copies is identical to the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	s been filed hat in the
3. Additional comments:	

International application No. PCT/US2004/012799

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: See FURTHER INFORMATION sheet PCT/ISA/210
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-3, 15-17, 21-24, 27-29, 41-43, 47, 50, 53, 54 (partially)
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 1-24 and 27-47 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. Although claims 25-26, 48, 49, 51 and 52 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3, 15-17, 21-24, 27-29, 41-43, 47, 50, 53, 54 (partially)

A method of inhibiting prostate cancer cell growth, comprising inhibiting Stat5 activity in the prostate cancer cells, wherein the inhibitor is a small molecule.

2. claims: 7-14, 33-40 (totally); 1-3, 15-17, 21-24, 27-29, 41-43, 47, 50, 53, 54 (partially)

A method of inhibiting prostate cancer cell growth, comprising inhibiting Stat5 activity in the prostate cancer cells, wherein the inhibitor is an siRNA construct or an antisense construct agains Stat5.

3. claims: 19, 20, 45, 46 (totally); 1-3, 15-17, 21-24, 27-29, 41-43, 47, 50, 53, 54 (partially)

A method of inhibiting prostate cancer cell growth, comprising inhibiting Stat5 activity in the prostate cancer cells, wherein the inhibitor is an antibody against the prolactin receptor.

4. claims: 4-6, 30-32 (completely); 1-3, 15-17, 21-24, 27-29, 41-43, 47, 50, 53, 54 (partially)

A method of inhibiting prostate cancer cell growth, comprising inhibiting Stat5 activity in the prostate cancer cells, wherein the inhibitor is a nucleic acid, which encodes a protein that has dominant-negative Stat5 function.

5. claims: 18, 44 (totally); 1-3, 15-17, 21-24, 27-29, 41-43, 47, 50, 53, 54 (partially)

A method of inhibiting prostate cancer cell growth, comprising inhibiting Stat5 activity in the prostate cancer cells, wherein the inhibitor is a nucleic acid, which encodes a protein that has dominant-negative Jak2 function.

6. claims: 25, 26, 48, 49, 51, 52 (totally)

A method of diagnosing or aiding in the diagnosis of prostate cancer in a male, comprising obtaining a sample of prostate tissue from a male and determining whether activated Stat5 is present in cells of the prostate tissue sample.

INTERNATIONAL SEARCH REPORT Information on patent family members

International Application No PCT/US2004/012799

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 03026641 A	03-04-2003	EP US	1427406 A2 2004259942 A1	16-06-2004 23-12-2004